

ELECTRONICS & DEFENSE



## BLUENAUTE®

ULTRA-HIGH RELIABILITY GYROCOMPASS, AHRS & INS

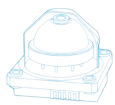
- Best value maintenance-free system
- Outstanding reliability
- Latest state-of-the-art HRG technology
- Immune to severe environmental conditions

# BLUENAUTE®

## Ultra-high reliability gyrocompass, AHRS & INS

Capitalizing on Safran Electronics & Defense's 70-year experience in inertial technologies, BlueNaute® is a compact strap-down navigation system from AHRS to INS (including Gyrocompass system). Based on advanced HRG (Hemispherical Resonator Gyros), BlueNaute® is maintenance-free and its MTBF provides unrivalled operational availability.

Thanks to HRG performances, BlueNaute® widely exceeds IMO (International Maritime Organization) performances standards for marine gyrocompass and does not require GPS aiding to deliver full accuracy.



The HRG makes use of a miniature thin solid-state hemispherical shell which is driven to resonance. The gyroscopic effect is obtained from the inertial properties of standing waves inside the miniature shell. Thanks to its extreme simplicity and its low number of parts, HRG exhibits disruptive ultra-high reliability.

- Latest generation of maintenance free gyrocompass
- Non GPS dependent
- True strapdown technology
- Ultra robust system
- Unrivalled lifetime performance

Easy to integrate on any platforms, BlueNaute® is tailored for maritime operations

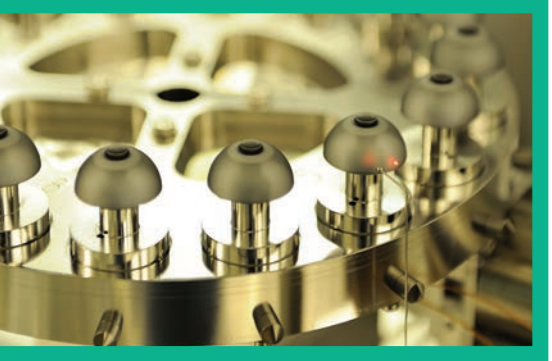
### COMMERCIAL



### SERVICE VESSELS



### PARA MIL



### Technical specifications

#### SWaP

- Size: 208 x 275 x 136mm
- Weight: < 4.7kg
- Power: < 28W under 24 VDC

**Observed MTBF > 200,000 hours**

#### Environments

- Operational : -20°C +60°C
- Shocks: 50g / 11ms
- Waterproofness: IP66
- IEC60945

#### Interfaces

- Ethernet
- RS422
- 5 inputs
- 8 outputs



IMO and IMO-HSC certified

### Performances

	BlueNaute Compass	BlueNaute Premium	BlueNaute Titanium	BlueNaute Platinum
POSITION (TDRMS)				1Nm/1h
HEADING (seclat RMS)	0.4 deg	0.2 deg	0.08 deg	0.08 deg
ROLL & PITCH (RMS)	0.01 deg	0.01 deg	0.01 deg	0.01 deg
HEAVE/SURGE/SWAY		5 cm	5 cm	5 cm

Safran Electronics & Defense  
 Arcs de Seine - 18/20 quai du Point du Jour - 92659 Boulogne-Billancourt Cedex - France  
 Tel.: +33 1 55 60 39 96 - Fax: +33 1 55 60 38 95  
[safran-electronics-defense.com](http://safran-electronics-defense.com)

